ENT COOPERATION TREA

	From the INTERNATIONAL BUREAU			
PCT	To:			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 22 novembre 2001 (22.11.01)	POSORSKE, Laurence, H. Brobeck, Phleger & Harrison LLP Intellectual Property Department 1333 H Street, N.W., Suite 800 Washington, D.C. 20005 ETATS-UNIS D'AMERIQUE			
Applicant's or agent's file reference				
061308.0356	IMPORTANT NOTIFICATION			
International application No. PCT/US00/07989	International filing date (day/month/year) 27 mars 2000 (27.03.00)			
The following indications appeared on record concerning:	_			
the applicant the inventor	the agent the common representative			
Name and Address	State of Nationality State of Residence			
POSORSKE, Laurence, H. Baker Botts, LLP 1299 Pensylvania Ave., N.W. Washington, D.C. 20004 United States of America	Telephone No. 202 220 6000			
United States of America	Facsimile No. 202 220 5200			
	Teleprinter No.			
2. The International Bureau hereby notifies the applicant that the	ne following change has been recorded concerning:			
the person the name X the add				
Name and Address	State of Nationality State of Residence			
POSORSKE, Laurence, H. Brobeck, Phleger & Harrison LLP Intellectual Property Department	Telephone No.			
Intellectual Property Department 1333 H Street, N.W., Suite 800 Washington, D.C. 20005	202 220 6000 Facsimile No.			
United States of America	202 220 5200			
	Teleprinter No.			
3. Further observations, if necessary:				
S. Farther observations, introduction,				
4. A copy of this notification has been sent to:				
X the receiving Office	the designated Offices concerned			
the International Searching Authority	X the elected Offices concerned			
the International Preliminary Examining Authority	other:			
The Laboure State Of Laboure	Authorized officer			
The International Bureau of WIPO 34, chemin des Colombettes	Y. KUWAHARA			
1211 Geneva 20, Switzerland	Telephone No.: (41-22) 338.83.38			

Form PCT/IB/306 (March 1994)

004480324

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

01 December 2000 (01.12.00)	in its capacity as elected Office			
International application No. PCT/US00/07989	Applicant's or agent's file reference 061308.0356			
International filing date (day/month/year) 27 March 2000 (27.03.00)	Priority date (day/month/year) 26 March 1999 (26.03.99)			
Applicant ALLNUTT, Thomas, F., C. et al				

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	23 October 2000 (23.10.00)
į	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Maria Kirchner

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

PATENT COOPERATION TREATY

PCT

REC'D 29 OCT 2001

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	·		f Thermittal of International
Applicant's or agent's file reference 062308.0356	FOR FURTHER ACTION	Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/	month/year)	Priority date (day/month/year)
PCT/US00/07989	27 MARCH 2000		26 MARCH 1999
International Patent Classification (IPC) Please See Supplemental Sheet.	or national classification and I	PC	
Applicant	TION		
MARTEK BIOSCIENCES CORPORA			
Examining Authority and is	s transmitted to the approxim	s been prepart according to	ared by this International Preliminary o Article 36.
THE PROPERTY AND A STATE OF ST	a total of \mathcal{U} sheets.		
This report is also accor	mpanied by ANNEXES, i.e., sk the basis for this report and/or ection 607 of the Administrativ	neets of the des sheets contain ve Instructions	scription, claims and/or drawings which have ing rectifications made before this Authority. under the PCT).
These annexes consist of a	total of sheets.		
3. This report contains indicati	ons relating to the following	g items:	·
I X Basis of the rep	port		
II Priority			cian et an or industrial applicability
\ <u>-</u>		novelty, inve	entive step or industrial applicability
IV Lack of unity	of invention	1 4	olar inventive step or industrial applicability
V X Reasoned stater citations and ex	nent under Article 35(2) with planations supporting such sta	regard to nov	elty, inventive step or industrial applicability
VI Certain docume			•
	in the international application		
VIII Certain observa	tions on the international appl	lication	
		Date of comp	etion of this report
Date of submission of the demand			
23 OCTOBER 2000		17 SEPTE	MBER 2001
Name and mailing address of the IF	PEA/US	Authorized of	the Bridge to
Commissioner of Patents and	rademarks	LASA V.	соок — //
Washington, D.C. 20231		Telephone No	. (703)305-1235
Facsimile No. (703) 305-3230			



International application No.

PCT/US00/07989

I. Basis of the	report			
1. With regard to th	ne elements of the interna	tional application:*		
X the intern	ational application as	originally filed		
= 45 - 3	iption:			
x the descripages	1-25			, as originally filed
pages				, filed with the demand
pages			filed with the letter of	
X the claim	S:			as originally filed
pages				, as originally filed ith any statement) under Article 19
pages		,	as amended (together w	, filed with the demand
pages		filed with t	ha letter of	, filed with the demand
pages	NONE	, med with t	ne letter or	
x the drawi	ings:			
x the drawi				, as originally filed
pages	NONE			, filed with the demand
pages	NONE	, fi	led with the letter of	
P4645				
X the seque	nce listing part of the	description:		
pages	NONE			, as originally filed
nages	NONE			, filed with the demand
pages	NONE	, fi	iled with the letter of _	
			application (under Rule oses of international prelim	48.3(b)). ninary examination (under Rules 55.2 and
or 55.3). 3. With regard to preliminary e	o any nucleotide and/ examination was carrie	or amino acid seq d out on the basis	uence disclosed in the int of the sequence listing:	ternational application, the international
Contained	d in the international	application in pri	nted form.	
filed toge	ether with the internat	tional application	in computer readable for	orm.
	l subsequently to this			
furnished	subsequently to this	Authority in com	puter readable form.	
The states internation	ment that the subseque	ently furnished wri I has been furnishe	tten sequence listing doesed.	s not go beyond the disclosure in the
The stater been furn		n recorded in comp	outer readable form is iden	tical to the writen sequence listing has
4. X The ame	endments have resulte	d in the cancellat	ion of:	
X the	description, pages	NONE	<u></u>	-
l 🗇	e claims, Nos.	NONE	<u> </u>	
i —	e drawings, sheets/ fig		<u>-</u>	
				, since they have been considered to go
beyond t * Replacement sh in this report of	the disclosure as filed, as	s indicated in the Su	applemental Box (Rule 70.) See Office in response to an i	
and 70.17). **Anv replaceme	ent sheet containing suc	h amendments musi	t be referred to under item	1 and annexed to this report.



International application No.

PCT/US00/07989

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability
	citations and explanations supporting such statement

,				
1.	statement			
	Novelty (N)	Claims	NONE	YES
		Claims	1-20	NO
	Inventive Step (IS)	Claims	NONE	
		Claims	1-20	NO
		.		
	Industrial Applicability (IA)	Claims	1-20	YES
		Claims	NONE	NO

- 2. citations and explanations (Rule 70.7)
 - I. Claims 1-20 lack novelty under PCT Article 33(2) as being anticipated by Xu et al. (The Journal of Biological Chemistry, 1996)

Xu et al. disclose the ligand binding properties of BLBP (brain lipid-binding protein). Docosahexaenoic acid (DHA) is shown to be a ligand for BLBP. Wherein the binding affinity between the two is the highest yet reported for an fatty acid binding protein/ligand interaction. See abstract.

Although the references is silent with respect to kit configurations such limitations are inherent in the reference because it discloses all the reagents and/or materials recited in the kit claims.

II. Claims 1-12 and 19-20 lack an inventive step under PCT Article 33(3) as being obvious over Plotter et al. (U.S. 4,943,527) or ANDERS LIMITED (WO 98/03159) in view of Lee et al. (Investigative Ophthalmology & Visual Science, 1995).

Plotter et al. disclose methods of purifying lipid-binding proteins (peptide), including fused recombinant proteins that can bind phospholipid. The researchers found that the addition of either endogenous or exogenous lipids to the peptide mixture forms a lido-peptide complex composed of lipid and the lipid-binding proteins. Abstract, Figure 1, and Column 1.

ANDERS LIMITED also disclose the purification and utility of lipid binding proteins including fatty acids are use in therapeutic and diagnostic processes.

Plotter et al. and ANDERS LIMITED differ from the instant invention in not teaching the utility of the binding proteins in DHA detection.

However, Lee et al. teach that fatty acid binding proteins (FABP) bind docosahexaenoic acid (DHAT.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to detect DHA as taught by (Continued on Supplemental Sheet.)



International application No.

PCT/US00/07989

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): G01N 33/92, 33/577; C07K 16/18; C12N 5/18, and US Cl.: 435/4, 5, 6, 7, 7.1, 7.21, 69.6, 968, 805; 436/69, 166, 169, 170; 530/387.1, 387.3, 387.9, 388.1, 388.15, 388.85, 388.26, 350, 432, 412

V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):

Lee et al. with the purified protein ligands found in the methods of Plotter et al. or ANDERS LIMITED because such techniques were widely known.

Absent results to the contrary or unexpected results the modification is viewed as an obvious modification that does not render the claims distinct from patent no. 5,872,014.

III. Claims 13-18 lack an inventive step under PCT Article 33(3) as being obvious over Plotter et al. (U.S. 4,943,527) or ANDERS LIMITED (WO 98/03159) in view of Lee et al. (Investigative Ophthalmology & Visual Science, 1995) and in further view of Zuk et al. (U.S. 4,281,061).

The teachings of Plotter et al. or ANDERS LIMITED in view of Lee et al. are set forth above. However, these references fail to teach the assay as a kit.

Zuk et al. teach that "as a matter of convenience the reagents [of an immunoassay] can be provided as kits, where the reagents are in predetermined ratios, so as to substantially optimize the sensitivity of the assay in the range of interest" (column 22, lines 63-66). It would have been prima facie obvious to one of ordinary skill in the art at the time of applicant's invention to take the DHA detection assay as taught by Plotter et al. or ANDERS LIMITED in view of Lee et al. and format them into a kit because Zuk et al. teach that it is convenient to do so and one can enhance sensitivity of a method by providing reagents as a kit. Further, the reagents in a kit are available in pre measured amounts which eliminates the variability that can occur when performing the assay.

occur when performing the assay.
Database BIOSIS on STN, AN 1995:200717. LEE et al. 'Cultured monkey pigment epithelial (PE) cells contain a fatty acid binding protein (FABP) that binds docosahexaenoic acid (DHa.' Investigative Ophthalmology & Visual Science. 1995, Vol. 36, No. 4, page S138.

International application No. PCT/US00/07989

A. CL	ASSIFICATION OF SUBJECT MATTER				
IPC(7)	:G01N 33/92, 33/577; C07K 16/18; C12N 5/18,				
US CL According	US CL :Please See Extra Sheet. According to International Patent Classification (IPC) or to both national classification and IPC				
	CLDS SEARCHED	oth national classification and IPC			
	documentation searched (classification system follow	wed by classification symbols)			
U.S.	435 4,5,6,7,7.1,7.21,69.6,968,805; 436 69,166,169,1		8.85,388.26,350,432,412		
Documenta	ation searched other than minimum documentation to	the extent that such documents are include	d in the fields seamhed		
East / W	Vest patent database	··· - ··· - ··· - ··· - ··· - · · · · ·	o in the fields scalelled		
Electronic (data base consulted during the internal and				
STN-bios	data base consulted during the international search ((name of data base and, where practicable	e, search terms used)		
	CUMENTS CONSIDERED TO BE RELEVANT		· · · · · · · · · · · · · · · · · · ·		
Category*	Citation of document, with indication, where a		Relevant to claim N		
X	XU, L.Z. et al. Ligand Specificity of Journal of Biological Chemistry. 199 24711-24719, see entire document.	of Brain Lipid-binding Protein. 96, Vol. 271, No. 40, pages	1-20		
Y	US 5,777,141 A (BRUNNER et a document.	al) 07 July 1998, see entire	1-13		
Y	US 5,550,156 A (KYLE) 27 August 1996, see entire document.				
Y	US 5,397,591 A (KYLE et al) 14 March 1995, especially col 6.				
Y	WO 98/03159 A2 (ANDARIS LIMI entire document	ITED) 29 January 1998, see	1-13		
	er documents are listed in the continuation of Box C	C. See patent family annex.			
A* docu	cial categories of cited documents. ument defining the general state of the art which is not considered to of particular relevance	"T" later document published after the inter date and not in conflict with the appli- the principle or theory underlying the	ICRUID DUI cited to understand		
	ier document published on or after the international filing date	"X" document of particular relevance: the	claimed invention areas by		
L" docu	ument which may throw doubts on priority claim(s) or which is d to establish the publication date of another citation or other	considered novel or cannot be considered when the document is taken alone	ed to involve an inventive step		
occument of particular relevance, the claimed invention can considered to involve an inventive step when the document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such documents such documents.			step when the document is		
P* docu	ument published prior to the international filing date but later than priority date claimed	being obvious to a person skilled in the *&* document member of the same patent	ne art		
	ctual completion of the international search	Date of mailing of the international sear			
17 MAY 20	000	2 1 JUN 2000	•		
lame and ma Commissione Box PCT	ailing address of the ISA/US er of Patents and Trademarks		BRIDGERS		
Washington,			L SPECIALIST A) MATRIX		
acsimile No.	. (703) 305-3230	Telephone No. (703)305-1235	100 A		

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/07989

C (Continua	ntion). DOCUMENTS CONSIDERED TO BE RELEVANT	PC1/US00/0/9	
Category*	Citation of document, with indication, where appropriate, of the relevant		
	meleadon. Whole appropriate, of the felevi	unt passages	Relevant to clain
Y	US 4,943,527 A (PROTTER et al) 24 July 1990, see en document.	itire	1-13
Y	US 4,281,061 A (ZUK et al) 28 July 1981, see entire de	ocument.	14-20
		·	
			·
			-

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: LAURENCE H. POSORSKE BROBECK, PHLEGER & HARRISON LLP 1333 H STREET, N.W. SUITE 800 WASHINGTON, D.C. 20005

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

24 OCT 2001

IMPORTANT NOTIFICATION

Applicant's or agent's file reference

062308.0356

International filing date (day/month/year) F

Priority Date (day/month/year)

PCT/US00/07989

International application No.

27 MARCH 2000

26 MARCH 1999

Applicant

MARTEK BIOSCIENCES CORPORATION

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

LISA V. COOK

elephone No. (703)305-1235

Budger (

Porm PCT/IPEA/416 (July 1992) *



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 062308.0356	FOR FURTHER ACTION	CTION See Notification of Transmittal of Internationa Preliminary Examination Report (Form PCT/IPEA/416	
International application No.	International filing date (day/	date (day/month/year) Priority date (day/month/year)	
PCT/US00/07989	27 MARCH 2000		26 MARCH 1999
International Patent Classification (IPC) Please See Supplemental Sheet.	or national classification and I	PC	
Applicant MARTEK BIOSCIENCES CORPORA	ATION		
	nary examination report has s transmitted to the applicant		red by this International Preliminary Article 36.
2. This REPORT consists of a	total of <u>4</u> sheets.		
This report is also according been amended and are t	npanied by ANNEXES, i.e., she	neets containir	cription, claims and/or drawings which have ng rectifications made before this Authority. under the PCT).
These annexes consist of a t	otal of sheets.		
3. This report contains indication	ons relating to the following:	tems:	
I Basis of the report			
II Priority			
		14 :	tion atom on industrial applicability
	•	oveny, inven	tive step or industrial applicability
IV Lack of unity of			
V X Reasoned statement citations and expl	ent under Article 35(2) with re anations supporting such state	gard to novelt nent	y, inventive step or industrial applicability;
VI Certain documents	s cited		
VII Certain defects in	the international application		
VIII Certain observatio	ns on the international applica	tion	
Date of submission of the demand	Date	e of completion	n of this report
23 OCTOBER 2000		ку ѕертемві	ER 2001
Name and mailing address of the IPEA Commissioner of Patents and Trade Box PCT Washington, D.C. 20231	marks	norized officer	Budgloo for
Facsimile No. (703) 305-3230	Tele	phone No.	(703)305-1235



International application No.

PCT/US00/07989

I. B	asis of the repo	rt			
1 Wit	regard to the eler	nents of the internati	onal application:*		
_	_	al application as			
Х	the description		, B,		
X					, as originally filed
	pages				, filed with the demand
	pages	NANE .	filed v	ith the letter of	, mod with the demand
	pages	NONE	, med w	in the letter or	
X	the claims:				
بعتا	pages	26-27			, , as originally filed
	pages	NONE			statement) under Article 19
	pages	NONE			, filed with the demand
	pages	NONE	, filed with the lett	er of	
X	the drawings:	NONE			as originally filed
	pages				, as originally filed, filed with the demand
	pages				
	pages	NONE	, illed wi	in the letter of	
37	the coguence li	isting part of the d	escription.		
X	pages	NONE	bon prion.		, as originally filed
	pages				, filed with the demand
	nages	NONE	, filed wi	th the letter of	
	the language of or 55.3).	the translation furn	ished for the purposes of		xamination (under Rules 55.2 and
3. W	ith regard to any eliminary exami	nucleotide and/or nation was carried	out on the basis of the	sequence listing:	nal application, the international
	contained in the	he international a	oplication in printed fo	rm.	
	filed together	with the internati	onal application in con	nputer readable form.	
	furnished subs	sequently to this A	Authority in written for	m.	
	furnished subs	sequently to this A	Authority in computer 1	eadable form.	
	I The statement	that the subsequen			beyond the disclosure in the
		that the information		adable form is identical to	the writen sequence listing has
4. X	The amendme	ents have resulted	in the cancellation of:		
	X the desc	cription, pages	NONE		
	F	ms, Nos.	NONE		
		wings, sheets /fig	NONE		
5.	This report has	been drawn as if (s	ome of) the amendments	had not been made, since the	hey have been considered to go
⊥ .מ•	beyond the dis	sclosure as filed, as	indicated in the Suppleme	ental Box (Rule 70.2(c)).** e in response to an invitation	under Article 14 are referred to ntain amendments (Rules 70.16



International application No.

PCT/US00/07989

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. statement			
Novelty (N)	Claims	NONE	_ YES
	Claims	1-20	_ NO
Inventive Step (IS)	Claims	NONE	_ YES
	Claims	1-20	_ NO
			ı
Industrial Applicability (IA)	Claims	1-20	_ YES
	Claims	NONE	_ NO

- 2. citations and explanations (Rule 70.7)
 - I. Claims 1-20 lack novelty under PCT Article 33(2) as being anticipated by Xu et al. (The Journal of Biological Chemistry, 1996)

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ANDERS LIMITED also disclose the purification and utility of lipid binding proteins including fatty acids are use in therapeutic and diagnostic processes.

Plotter et al. and ANDERS LIMITED differ from the instant invention in not teaching the utility of the binding proteins in DHA detection.

However, Lee et al. teach that fatty acid binding proteins (FABP) bind docosahexaenoic acid (DHA).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to detect DHA as taught by (Continued on Supplemental Sheet.)



International application No.

PCT/US00/07989

ċ,

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): G01N 33/92, 33/577; C07K 16/18; C12N 5/18, and US C1.: 435/4, 5, 6, 7, 7.1, 7.21, 69.6, 968, 805; 436/69, 166, 169, 170; 530/387.1, 387.3, 387.9, 388.1, 388.15, 388.85, 388.26, 350, 432, 412

V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):

Lee et al. with the purified protein ligands found in the methods of Plotter et al. or ANDERS LIMITED because such techniques were widely known.

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Database BIOSIS on STN, AN 1995:200717. LEE et al. 'Cultured monkey pigment epithelial (PE) cells contain a fatty acid binding protein (FABP) that binds docosahexaenoic acid (DHa.' Investigative Ophthalmology & Visual Science. 1995, Vol. 36, No. 4, page S138.